

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 50.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001191**Date Inspected:** 04-Nov-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Jiangyin**Location:** Changxing Dao, Shanghai**Quality Control Contact:** Don Walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** Office, OBG 6AW, Sub-Assemblies, Sampling**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

**Office**

Sort and organize project documentation. Also submit reports for review.

**OBG 6AW**

ZPMC were observed performing touch up and repairs to internal undercoated surfaces. Also concurrent with repairs Interzinc 52 was being applied to the internal areas of the bolt holes.

**Sub-Assembly**

Base metal surfaces of 12 X27A splice plates were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied.

**Sampling and Testing**

Abrasive sample obtained from trial Assembly was obtained and the following results were observed: No oils present and chloride content was 80us.

**OBG 6AW**

Internal undercoated surfaces were undergoing in process Dry Film thickness (DFT) verification and identification of non-compliant areas for amendment by ABF and ZPMC QA/QC representatives.

**OBG 6CW**

Internal Base Metal surfaces of the "U" rib stiffeners and upper Chevron connections and FL-2-1 beams and Upper Corner units from Panel Points 45, 46 and end weld seam were abrasive blasted for VT of welded areas and

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fabrication defects. Grinding of weld slag, burrs and fins and sharp edges was performed and weld areas were mapped accordingly by Caltrans QA Tim McClendon.

### Sub-Assemblies

Component codes CTSBBG7, CTSBBG6 were viewed prior to galvanizing process. Also while at the Galvanizing facility it was observed that many components previously observed in the blasting workshop had been galvanized already and was in process of grinding operations to remove hardened drips off of the edges and clean up the zinc coated surfaces. The total items requested for inspection on this date were 15. There were many other components there already galvanized with no documentation.

### Office

Drafted and forwarded Incident reports for non-compliant items of work for OBG 6AW "Mud crack" and for OBG 6CE Scaffold point of contact painted over rusted base metal surfaces with no cleaning performed prior to application.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

### Summary of Conversations:

Caltrans QA Lumley inquired with ABF QA Don Walton as to quantity of materials at galvanizing facility did not coincide with notification.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, (858) 699-9549, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Lumley,James	Quality Assurance Inspector
<b>Reviewed By:</b>	Carreon,Albert	QA Reviewer

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